

ABSTRACT

A data construct called a semcard is a semantic (meaning-based) software object including semantic meta-tags and meta-data that describes a target object or thing. A target object can be any type of digital or physical entity or identifier, or it can be tacit knowledge, such as ideas, concepts, processes or other data existing in a user's mind, provided that the user represents this knowledge in the semcard. A semcard embodies information about its own structure—rules, history, state, policies and goals regarding automation, display, access permissions, sharing and other operations of the semcard and any optional target object. It can also represent a semantic link between two semcards, or a semantically typed link or a standard Web hyperlink between a semcard and its referent target. A collection of semcards represents a knowledge network; single semcards, and knowledge networks, can be browsed, shared, searched, disseminated, manipulated, displayed, organized, and stored.